

Impact Ring Bit System[®]

Simultaneous Drilling & Casing for Horizontal Applications

- Drills 10³/₄" to 50¹/₂" (273 - 1283 mm) diameter holes
- Consists of DTH hammer, auger and two-piece ring bit
- Outstanding results in overburden and solid rock
- Faster penetration rates due to large bit surface area contacting formation
- Saves money as all components are reusable on multiple projects
- Efficient hole cleaning through large flushing holes and an auger fitted on the backhead of the hammer
- For use with horizontal or conventional DTH hammers used on rail-mounted boring machines

**NUMA[®]**
HAMMERS AND BITS

The World's **Leading**
Drilling Technology



Impact Ring Bit System



Auger

Promotes better hole cleaning

Casing

Installed while drilling

DTH Hammer

Powers drilling

Center Bit

Affixed to hammer, aligns with Ring Bit

Ring Bit

Affixed to casing, aligns with Center Bit

System Specifications

System	Casing Size OD	Drilled Diameter	Casing Wall Thickness	Compressor	Suggested Auger Diameter
P80	10-3/4"	11-3/4"	3/8"	950 cfm	9-3/4"
N100	273 mm	298 mm	9.5 mm	448 l/sec	248 mm
N100	12-3/4"	13-3/4"	3/8"	1000 cfm	11-3/4"
P120	324 mm	349 mm	9.5 mm	472 l/sec	298 mm
P120	14"	14-3/4"	3/8"	1500 cfm	12-3/4"
P125	356 mm	375 mm	9.5 mm	708 l/sec	324 mm
P120	16"	17"	3/8"	1500 cfm	14-3/4"
P125	406 mm	432 mm	9.5 mm	708 l/sec	375 mm
P125	18"	19"	3/8"	1500 cfm	16-3/4"
P180	457 mm	483 mm	9.5 mm	708 l/sec	425 mm
P125	20"	21"	1/2"	1500 cfm	18-3/4"
P180	508 mm	533 mm	12.7 mm	708 l/sec	475 mm
P180	24"	25"	1/2"	2400 cfm	22-3/4"
P240	610 mm	635 mm	12.7 mm	1133 l/sec	578 mm
P180	30"	31"	1/2"	2400 cfm	28-3/4"
P240	762 mm	787 mm	12.7 mm	1133 l/sec	730 mm
P180	32"	33-1/8"	1/2"	2400 cfm	30-3/4"
P240	813 mm	842 mm	12.7 mm	1133 l/sec	781 mm
P240	36"	37-1/4"	1/2"	3500 cfm	34-3/4"
C330	914 mm	946 mm	12.7 mm	1652 l/sec	883 mm
C330	40"	42"	1/2"	6000 cfm	38-3/4"
	1016 mm	1067 mm	12.7 mm	2832 l/sec	984 mm
C330	42"	44"	1/2"	6000 cfm	40-3/4"
	1067 mm	1118 mm	12.7 mm	2832 l/sec	1035 mm
C330	48"	50-1/2"	1/2"	6000 cfm	46-3/4"
	1219 mm	1283 mm	12.7 mm	2832 l/sec	1187 mm

Casing specification required upon placement of order. All casing and auger sizes are nominal. Other sizes may be available upon request.

